

A SCHEME FOR SPREAD SPECTRUM MULTIPLE ACCESS CODING

Abstract of the Disclosure

This invention publishes a spread spectrum multiple access coding technique applied in any wireless digital telecommunication system involving Code Division Multiple Access and spread spectrum technique. The group of basic pulses has normalized amplitudes and duration of 1 and polarity; the number of basic pulses is ascertained by practical factors; there is no equal interval between basic pulses on time axis, and asymmetry of pulses' positions is employed to achieve arranging coding. This coding scheme can control and minimize the side lobes of auto-correlation and cross-correlation functions, then simplify the design of a CDMA system, so a wireless digital telecommunication system with large capacity can be established effectively to solve the contradiction between ever increasing demand for telecommunication capacity and limited frequency resources.

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